

Claims

What is claimed is:

1. A method for the production of organic solar cells or photodetectors, particularly based on organic polymers, comprising the following steps:
  - a first organic n- or p-conductive semiconductor layer is applied to an electrode,
  - to the solid first organic semiconductor layer is applied a second organic semiconductor layer of the respective other conductivity whose solvent partially dissolves the first organic semiconductor layer, such that the first semiconductor mixes with the second semiconductor and a bulk heterojunction mixed layer forms,
  - a second electrode is applied opposite the first.
2. The method according to claim [1], characterized in that the solvent for each layer is matched to the solubility of the semiconductor to be deposited in that layer.
3. The method according to one of the preceding claims, characterized in that the application of a layer is effected by doctor-blading or by a printing process.
4. The method according to one of the preceding claims, characterized in that a conjugated polymer is used as donor.
5. The method according to one of the preceding claims, characterized in that

a soluble methanofullerene is used as acceptor.